

Sikafloor[®]-305 W

2-part PUR matt coloured seal coat for the
Sika[®]-ComfortFloor[®] and Sika[®]-ComfortFloor[®] Pro System

Positioning Description	Sikafloor [®] -305 W is a two part waterbased, low VOC, polyurethane, coloured matt seal coat.
Uses	<ul style="list-style-type: none">• Matt coloured seal coat for Sika[®] ComfortFloor[®]-Systems
Advantages	<ul style="list-style-type: none">• Waterbased• Very low odour• Good UV resistance, non-yellowing• Easy to clean
Approval / Standards	Eurofins Emission tested according to the AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology). Sampling, testing and evaluation were performed according to ISO-16000, Report No. 769855D.
Product Data	
Appearance / Colours	Sikafloor [®] -305 W is silky-matt after final curing. Available in a wide range of RAL colour shades. Be aware that the colour of the Sikafloor [®] -330 has to be approx. adjusted to the colour of the Sikafloor [®] -305 W. With bright colours it may be necessary to apply several coats of Sikafloor [®] -305 W.
Packaging	Part A: 8.5kg Part B: 1.5kg Part A+B: 10.0kg ready to mix units
Storage & Shelf Life	Part A: 6 (six) months from date of production Part B: 12 (twelve) months from date of production If stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.
Technical Data	
Chemical Base	PUR
Density	Part A: ~ 1.33kg/l Part B: ~ 1.13kg/l Mixed Resin: ~ 1.24kg/l (diluted with 4 % Water) All Density values at +23°C.
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.
USGBC LEED Rating	Sikafloor [®] -305 W conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings EPA Reference Test Method 24 VOC Content < 100g/l



System Information

System Structure

Sealing of Sika®-ComfortFloor® and Sika®-ComfortFloor® Pro:

Base coat: Sikafloor®-330

Coloured matt seal coat: 1-2 x Sikafloor®-305 W

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Sealing of smooth surfaces	Sikafloor®-305 W	Approx 0.13kg/m ² /layer

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage, etc. Lower consumption can cause roller marks, gloss differences and irregular surface structure, higher consumption result in water retention and can cause pigment floating.

Substrate Quality

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Pull-off strength must be not less than 1.5N/mm².

If in doubt, apply a test area first.

Substrate Preparation

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

Notes on Application / Limitations

Substrate Temperature

+10°C min. / +30°C max.

Ambient Temperature

+10°C min. / +30°C max.

Relative Air Humidity

75% max.

During curing the humidity should not exceed 75 % max. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.

Dew Point

Beware of condensation!

The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing

Part A : part B = 85 : 15 (by weight)

Mixing Time

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.

To achieve a smoother surface, 5 % water can be added.

After adding the water mix continuously for 1 minute. Wait one minute and then mix it up again for one minute.

The adding of water must be the same in every mix, if not it could slightly influence the matt finish and the texture.

Check the mixing result and the absence of lumps or agglomerates on the mixing blade.

To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.

Over mixing must be avoided to minimise air entrainment.

Mixing Tools

Sikafloor®-305 W must be thoroughly mixed using a low speed electric stirrer (300 - 400rpm) or other suitable equipment.



Application Method / Tools

Prior to application observe ambient and substrate temperature, relative humidity and dew point. Do not apply if conditions are not suitable.

Divide the area to be coated into parts for the number of A + B units, to have consumption under control and to know how far to paint with each A + B mixture. The rollers should be wetted in the first area, which should be taken into account by pouring out some more material. The roller will absorb approx 0.3-0.5kg coating a. With a small quantity mixed product, pre-coat the edge areas with brush and small roller. But never go further ahead than 10 minutes to the regular rolling, to obtain minimal visibility. Within the pot-life (as soon as possible) depending on the temperature 20min (30°C) – 40min (10°C) the product is poured and spread out on the substrate under observation of the coverage rate (+/- 130g/m²). Attention: the end of the pot-life is not noticeable!

After pouring out, the material has to be spread in the pouring direction with the roller and with the same roller cross to pouring direction, covering approx. 1.35 m wide not overlapping the former lane, and backwards covering approx 1.45m with a overlap of less than 5 cm. Porous spots where the skin of sub layer is "opened" by sanding such as after repairs, have to be pre-coated a few minutes before arriving there with the regular roll-out to minimise visibility. Then change to a short piled roller and extend the overlap, in a calm way to approx 10 -20cm. See to it that no glittering shiny spots will be left in the finished paint layer caused by paint pick-up from the surface by the roller.

Spray application:

Sikafloor® -305 W can also be airless spray applied, e.g. with a Airless-Membranepump SF 31 Wagner, tube length 15m, inside diameter 6mm. Jet 319, a white filter and a pressure of 180bar (Machine).

A seamless finish can be achieved if a wet edge is maintained during application.

Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

Potlife

Temperature	Time
+10°C	~ 50 minutes
+20°C	~ 40 minutes
+30°C	~ 20 minutes

Caution: End of potlife is not noticeable.

Waiting Time / Overcoating

Before applying Sikafloor®-305 W on Sikafloor®-330 N allow:

Substrate temperature	Minimum	Maximum
+10°C	48 hours	4 days
+20°C	24 hours	3 days
+30°C	16 hours	2 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Notes on Application / Limitations

Freshly applied Sikafloor®-305 W must be protected from damp, condensation and water for at least 7 days (+20°C).

Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealer coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.

Tools

Electric drill, mixing-blade, brushes and short piled rollers 10cm up to 70cm for surface area (amount depending on size of floor). Roller frames and telescopic extension handles, tape and spatula. Plastic sheeting for placement of wet rollers.

Recommended supplier of tools:

TECHNO-Werkzeuge A.E; Vertriebs GmbH

Dieselstr. 44; 42579 Heiligenhaus, Phone: 02056 / 9846-0

Info@Techno-Vertrieb.de; Homepage: <http://www.techno-vertrieb.de>

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com.

J. Wagner GmbH;

Homepage : [http://www.wagner-](http://www.wagner-group.de/portal/company_contacts_de_wag,15181,360.html)

[group.de/portal/company_contacts_de_wag,15181,360.html](http://www.wagner-group.de/portal/company_contacts_de_wag,15181,360.html)

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters as these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.



Curing Details

Applied Product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 30 hours	~ 48 hours	~ 6 days
+20°C	~ 16 hours	~ 24 hours	~ 4 days
+30°C	~ 12 hours	~ 18 hours	~ 3 days

Note: Times are approximate and will be affected by changing ambient conditions.

Cleaning

To maintain the appearance of the floor after application, Sikafloor®-305 W must have all spillages removed immediately and be regularly cleaned. Please refer to the "General maintenance tips and recommended cleaning procedures" for the Sika ComfortFloor Systems.

Notes

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on www.sika.co.nz, or on request.
- If in doubt always follow the directions given on the pack or label.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.




CE Labelling

The harmonized European Standard EN 13813 'Screed material and floor screeds - Screed materials - Properties and requirements' specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

	
Sika (NZ) Ltd 85 - 91 Patiki Road, Avondale Auckland 1026, New Zealand	
04 ¹⁾	
EN 13813 SR-B1,5	
Primer/Sealer (systems as per Product Data Sheet)	
Reaction to fire:	NPD ²⁾
Release of corrosive substances (S ynthetic R esin S creed):	SR
Water permeability:	NPD
A brasion R esistance:	NPD
B ond strength:	B 1.5
I mpact R esistance:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

¹⁾ Last two digits of the year in which the marking was affixed.

²⁾ No performance determined.



CE Labelling

The harmonized European Standard EN 1504-2 'Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 2 : Surface protection systems for concrete' gives specifications for products and systems used as methods for the various principles presented under EN 1504-9.

Products which fall under this specification have to be CE-labelled as per Annex ZA. 1, Tables ZA.1a to ZA 1g according to the scope and relevant clauses there indicated, and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

Here below indicated are the minimum performance requirements set by the standard. For the specific performance results of the product to the particular tests, please see the actual values above in the PDS.

CE	
0958	
Sika (NZ) Ltd 85 - 91 Patiki Road, Avondale Auckland 1026, New Zealand	
09 ¹⁾	
0958–CPD–1041	
EN 1504-2	
Surface Protection Product Coating ²⁾	
Abrasion resistance (Taber test):	< 3000mg
Permeability to CO ₂ :	S _D > 50m
Permeability to water vapour:	Class II
Capillary absorption and permeability to water:	w < 0.1kg/m ² x h ^{0.5}
Resistance to severe chemical attack: ³⁾	Class II
Impact resistance:	Class II
Adhesion strength by pull-off test:	≥ 0.8N/mm ²
Fire Classification: ⁴⁾	E _{fl}

¹⁾ Last two digits of the year in which the marking was affixed.

²⁾ Tested as part of system build-up Sika ComfortFloor Pro consisting of Sikafloor[®] Comfort Adhesive, Sikafloor[®]-Comfort Regupol 6015 H, Sikafloor[®] Comfort Porefiller, Sikafloor[®]-330 and Sikafloor[®]-305 W

³⁾ For details please refer to Sikafloor[®] Chemical Resistance Chart.

⁴⁾ Min. classification, please refer to the individual test certificate.

EU Regulation 2004/42 VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **sb**) is 140g/l (Limit 2010) for the ready to use product. The maximum content of **Sikafloor[®]-305 W** is < 140g/l VOC for the ready to use product.



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